Dental Casting Resin

Residue free

Compatible with LCD/DLP
Material certification: NMPA
Color: cherry red/green

Features

- Fast molding speed
- No residue
- High molding accuracy
- Fast burning
- High surface hardness
- Low shrinkage

PioNext
Dental Casting Resin
PN-Cast
Usage
Note:
Storage:

Cherry Red
Photopolymer UV Resin
1 Liter
Shake Before Use

No ash residue

low shrinkage

high hardness

cost-effective

smooth surface

Good liquidity

high precision

Hardness	ASTM D2240	/	>D80
Flexural modulus	ASTM D790	MPa	>1500
Bending strength	ASTM D790	MPa	>70
Sintering temperature	/	°C	850-900
Sintering time	/	h	1-1.5
Casting wall thickness	/	mm	⩾0.35
Printed product storage time	/	h	<10
Ash value	/	/	<0.05%

No ash residue

Special dental casting resin is suitable for suitable for 3D printing of dental crown wax models, dental bridge wax models, and bracket wax models. Used for the production of casting blanks in precision casting technology. Even in large-scale casting, there are no residues after burning.

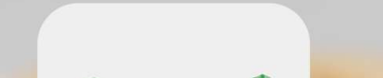
High surface hardness

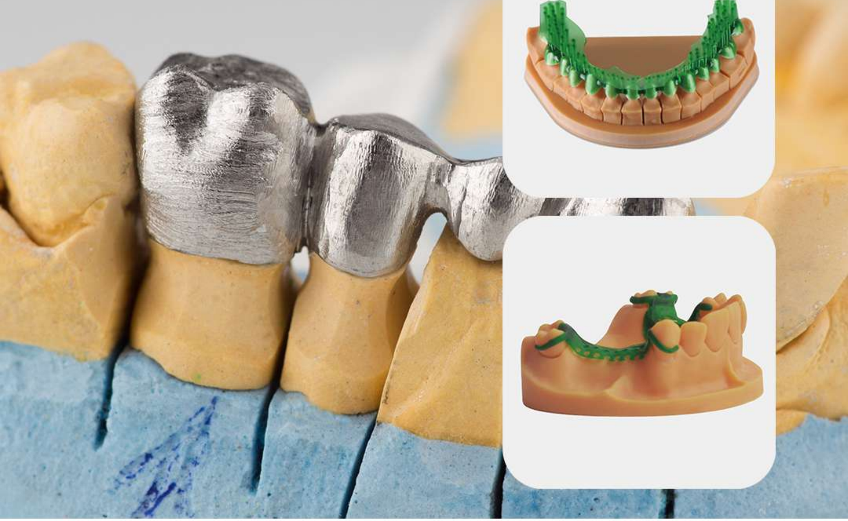
The high hardness of casting resin makes it less prone to deformation, ensuring the precision of dental repairs or dentures, making them fit more closely to the patient's original teeth.

The production process has high reliability and high molding precision.

Application positioning

Various dental applications and small batch production of cast pressed crowns, bridges, removable denture frames, dentures and other various dental and medical casting applications.





Parameter suggestion

Application parameters of Dental casting resin_PN-Cast

Device name	Thickness	Bottom layer exposure time	Layer exposure time	Motor speed
LCD	0.05-0.1(mm)	45-50(s)	4.0~4.5(s)	3~4(mm/s)
DLP	0.05-0.1(mm)	25-30(s)	3.0~3.3(s)	3~4(mm/s)

Post-processing parameter recommendations table of Dental casting resin_PN-Cast

设备名称	波长	光强百分比	推荐时间	有/无水浴
UV02	(405)nm	30%	5(4-8)min	无

Advantages of digital dental applications

Enhance patient experience, simplify the work flow,
and get better result.

Advantages of lost wax casting with dental casting resins

1. High precision: Dental casting resin can accurately replicate the shape of the model during the casting process, enabling the final dental restoration to match the patient's oral structure very precisely.

2. Good texture: The texture of the casting resin is delicate, which can ensure the meticulousness and smoothness of the restoration, reducing tooth wear and the sense of foreign bodies in the mouth.

3. Fast process: The process of lost wax casting using dental casting resin is relatively simple, and the dental restorations made by this method require less time.

4. High cost-effectiveness: Compared with other casting materials, the cost of dental casting resin is lower, which makes it a more economical choice for patients.

Packaging display

Note: The packaging is for reference only, there may be differences between different batches, and make the object as the standard.

1000g: 290×110×110mm | 500g: 190×100×100mm

3D Printer
UV Curable Resin
1000g
PioNext | PIOCREAT
Resin & 3D Printer Manufacturer
290mm
110mm
3D Printer
UV Curable Resin
500g
PioNext | PIOCREAT
Resin & 3D Printer Manufacturer
190mm
100mm

Material usage notice

post-processing and washing
Safety precautions
Correct storage method

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post-processing and washing

1. The print model should be cleaned with absolute ethanol/isoprpanol using low-frequency ultrasonic cleaner. Do not use high-frequency to clean or scrub the model too hard, in order to avoid to cause certain damage to the surface of the model.

2. Using an air gun or hair dryer to remove the cleaning fluid on the surface of the model.

3. It is recommended to remove the support for model before the post-cure treatment. After then, you can remove rest of the detailed supports and do the surface treatment.

4. Adjust the curing time according to the selected post-curing mode.

Safety precautions

1. This product is for one-time use and cannot be reused.

2. Only use it under good ventilation,please pay attention to air circulation and take protective measures when using.

3. Eye Contact: Immediately flush with plenty of clean water. If you still feel unwell after washing, please seek medical attention immediately.

4. Skin Contact: Remove contaminated clothing and rinse contact area thoroughly with soap and water.

5. You can't eat or drink resin.If swallowed accidentally, do not induce vomiting, and seek medical attention in time.

6. The waste should be in acoordance with local enviromental rugulations.

Correct storage method

Please storage the product below 25 °C, avoid exposure to the light, general illumination visible light will initiate polymerization reaction.

Do not place it in the sun exposure, humid and corrosive gas presence place.

The shelf life is 18 months.